PATENT APPLICATIONS BEING PREPARED

November 1977

= Keritsis Case

= Lendvay Case

Watson, Leavenworth, Kelton & Taggart

PM 636 - A. Lendvay

FILLING POWER INCREASE OF SMOKING MATERIAL

Filling power of leaf is increased by applying aqueous aluminum sulfate or closely related salt without detriment to smoke acceptability.

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PM 641 - G. Keritsis

NON-TOBACCO SMOKING MATERIALS

A variety of formulations for non-tobacco smoking materials was disclosed. They are characterized in giving acceptable smoke flavor with low "tar" delivery.

Inventor has narrowed definition somewhat; preparation of application(s) going forward.

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PM 653 - G. Keritsis

EXTRUSION OF SMOKING MATERIALS

Any of a wide variety of extrusion or other forming techniques presently in use with resins can be used to form sheet or fibrous pro'ucts from synthetic smoking materials based on resins. Suitable for use as supplement ot other Keritsis cases.

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 662 - R. Seligman
G. Keritsis

INCORPORATION OF HEAT-TREATED CARBOHYDRATE IN RCB BLEND MATRIX

Heat-treated carbohydrate is incorporated into an RCB matrix prior to casting to produce a sheet with a lowered tar and nicotine smoke.

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PM 682 - J. Knight

EXPANSION OF TOBACCO WITH CARBON DIOXIDE HYDRATE

Formation of carbon dioxide hydrate as the agent within tobacco for subsequent release of gas for puffing permits operation at lower pressures than with liquid CO_2.

Case indicated as having some priority. Draft application, awaiting review and information from C. Hoelzel.

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PM 683 - S. Debrand

PROCESS FOR INCREASING THE FILLING CAPACITY OF TOBACCO

Filling capacity of tobacco is increased about 20% by treating at 85°/80% r.h. and reordering.

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PM 689 - G. Keritsis

CROSS-LINKED SMOKING MATERIAL

To strengthen and reduce breakage of smoking materials, especially foamed or expanded, treat with polyfunctional hydroxy or amino compounds and polycarboxylic acids, etc.

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Source: https://www.industrydocuments.ucsf.edu/docs/khwj0000

PM 690 - A. Lendvay
H. Wakeham

CARBONIZATION OF TOBACCO PRODUCTS

Tobacco stem/stalk is thermalized, added to reconstituted tobacco to reduce TPM delivery.

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PM 695 - A. Lendvay

UPGRADING TOBACCO STEM MATERIALS

Use of thermally treated stem material degraded to a 10% weight loss (at temperatures between 150°C and 350°C), removing harshness or odor by ventilation, steam, or water extraction (no catalyst used)--then incorporated in filler. Process upgrades stem material.

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PM 697 - A. Lendvay
B. Spann

CONTINUOUS PROCESS FOR TOBACCO EXPANSION

Tobacco on conveyor is sprayed with ammonium carbamate solution or with ammonium hydroxide solution followed by Dry Ice, then passed through expansion chamber.

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PM 698 - G. Keritsis

A SMOKABLE PRODUCT BASED ON HEAT-TREATED CARBOHYDRATES AND METHOD OF MAKING IT

Cellulose or its derivatives or plant material is thermally degraded to a weight loss of 10 - 90% and cast from a slurry with additives or added to paper.

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PM 699 - H. Grubbs
W. Johnson, Jr.
T. Van Auken

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MIXED PACK OF MENTHOL AND REGULAR CIGARETTES

Menthol retention insured by chemical binding to polymer for release on smoking.

Application nearly completed. Filing simultaneously with PM 709 desirable.

Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 706 - W. Claflin
L. Filosa

FILTER SYSTEM WITH CONTROLLED DRAW AND DILUTION CHARACTERISTICS

A ventilated cigarette is compensated for low RTD by a high RTD, low efficiency filter.

Application was filed in the Patent Office on November 18.

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PM 709 - W. Geiszler, Jr.
W. Hopkins

MIXED PACK OF CIGARETTES CONTAINING VARIOUS VOLATILE FLAVORS IN ENCAPSULATED FORM

Menthol or other flavor retention insured by physical encapsulation. See PM 699.

Application has been executed by Hopkins in England, expected here for execution.

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PM 711 - W. Geiszler, Jr.
W. Hopkins

DIAMMONIUM PHOSPHATE ADDED TO TOBACCO FILLER TO RETARD CIGARETTE BURN RATE

Priority case. See also PM 746.

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PM 712 - F. Daylor
D. Keel
H. Spielberg

FLAVOR IMPROVEMENT OF RECONSTITUTED TOBACCO PRODUCTS

Spray DAP on RL sheet or apply in recombine liquor.

Priority case. See also PM 746.

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 713 - G. Keritsis

TOBACCO REPLACEMENT MATERIAL

Chitin or chitosan as base for substitute smoking material.

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PM 722 - J. Washington

SYSTEM FOR PRODUCING AND FILLING CAVITIES IN A FILTER PLUG FOR CIGARETTES

Filter tow undergoes periodic stretching to form thin spots or pockets to receive granular material from pockets in a rotating wheel. The stretching is accomplished by passing the tow over two counter-rotating cams. Prototype stretcher operating.

Application was filed in the Patent Office on October 13.

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PM 727 and 728 - F. Utsch
R. de la Burde
P. Aument

TOBACCO EXPANSION WITH GASEOUS CO_2

Impregnation with gas and pressure release under conditions such that conversion to liquid or solid before heating step avoided.

Priority case. Associated with earlier cases and with PM 727. Revised application combining 727-728 received, returned with extensive additions corrections, further examples on August 30. Inventor de la Burde expected back in December; final draft expected momentarily.

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PM 742 - G. Keritsis

TOBACCO-FLAVOR PRECURSORS

Chitin, chitosan, glucosamine, and the like are incorporated in smoking product or wrapper to generate tobacco-like flavors. Compare PM 713.

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 746 - W. Geiszler, Jr.
W. Hopkins

DAP ADDED TO TOBACCO FILLER CONTAINING EXPANDED TOBACCO TO RAISE TPM/UNIT WEIGHT

See PM 711.

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PM 750 - L. Sykes
H. Merritt

IMPROVEMENT OF FILLING POWER OF EXPANDED TOBACCO BY HEAT TREATMENT

Post-expansion treatment increases or stabilizes filling power.

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PM 761 - T. Laszlo

MICROWAVE MOISTURE METER

A microwave beam is passed through the moving cigarette rod and the attenuation is a measure of moisture content.

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PM 763 - R. Thatcher

ZIP TAPE SEPARATOR

Separates pull tapes from filler reclaimed by carton ripper/reclaim process.

Search completed.

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PM 765 - J. Bowling

PACKAGE BLANK MEASURING INSTRUMENT

Accurately measures cut and score locations of flat package blanks.

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 773 - R. de la Burde
P. Aument
F. Utsch

CO_2 IMPREGNATION OF FILLER BY RAPID COOLING

Filler under low CO_2 gas pressure is cooled to condense CO_2 in tobacco for subsequent expansion.

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PM 775 - R. de la Burde
P. Aument

EXPANSION AND/OR FLAVOR ADDITION BY CO_2 LIQUID

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PM 776 - W. Mutter

AIR PERFORATION

Search completed.

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PM 778 - R. Thatcher
H. Odom

AERODYNAMIC-VIBRATORY SEPARATOR

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PM 779 - J. Osmalov

MEANS TO MEASURE TOBACCO FIRMNESS ON CIGARETTE MAKER

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PM 782 - R. Thatcher
H. Odom

TORUS FAN CIGARETTE RIPPER WITH AERO DYNAMIC VIBRATORY SCREEN SEPARATOR

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 784 - J. Osmalov

CONTROL OF MOISTURE IN TOBACCO DURING CIGARETTE MAKING

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Prepared by Patent Group

PM 719 - R. Greene

POST TREATMENT OF HUMIC ACID-COATED CIGARETTE PAPER

The elevated delivery of CO by these papers is counteracted by application of magnesium sulfate. Spotting tendency is also reduced.

Awaiting more information.

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PM 720 - W. Geiszler, Jr.

TIPPING PAPER WITH PATTERNED PERFORATIONS

Filter ventilation is achieved with porous plug wrap or equivalent, covered by tipping paper with relatively large holes punched out.

Prior art considerations suggest filing a design application; undecided. Awaiting staining pattern tests.

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PM 732 - A. Gergely
J. Namesny

ADJUSTABLE EXTRUSION DIE FACE PLATE

Adjusting bolts operate along x and y axes for quick setting via precalibration.

Search at Patent Office complete. Application filed in Patent Office on October 14.

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 739 - R. Bass
R. Jenkins, Jr.
R. Comes

METHOD OF REMOVING SAND, OTHER PARTICLES, AND FOREIGN MATTER FROM TOBACCO

Method of water spraying green tobacco leaf with controlled pressure and pattern, optionally with surfactant. New information awaited from 1977 tobacco crop.

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PM 752 - P. Gauvin

CIGARETTE DESIGNS

Decorative pattern applied to rod. Possible design applications.

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PM 766 - T. Laszlo

FEEDER FOR HIGH MOISTURE CONTENT TOBACCO

Rotating rods with pyramid-shaped teeth cause non-free-flowing filler to be transferred in metered amounts.

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PM 771 - R. Markwood

IMPREGNATOR HEAD AND FILLER

Unused space in domed head of liquid CO_2 impregnator blocked by lightweight structure.

Application in final form.

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PM 774 - N. Rainer
D. Siwiec

1005115998

EXPANDED, STIFFENED TOBACCO

Burley stems: (1) treated with divalent, trivalent metal salt, (2) soaked in aqueous NH_4OH-H_2O_2, and (3) washed and dried to increase CV and reduce TPM. Search completed.

Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000

PM 798 - J. Nienow
L. Shaw
C. Irving

METHOD FOR MEASURING FIRMNESS WHILE SMOKING OF CIGARETTE AND LENGTH DURING SMOKING OF CIGARETTE.

Includes device for these functions.

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Source: https://www.industrydocuments.ucsf.edu/docs/kmwj0000